

## BIRCH BARK MS.

Dr. A. F. Rudolf Hoernle again exhibited the old birch bark MS., brought by Lieut. Bower from Kashgaria, and made the following rcinarks coneerning it:
"This MS. was first shown to the Soeiety in November last, in the Proceedings of which month an aceount of its aequisition by Lieut. Bower is printed. That account appears to have been reprinted in the Bombay Gazette, a copy of whieh aecidentally fell into my hands in Aden on my way out to India in March last. It was the first notiee I had of it; Major Cumberland, whose eompanion Lieut. Bower had been on his travels, was a fellow-passenger of mine and gave me corroborative information; all this made me very anxious to see the MS. On my reaching Caleutta I was very glad to find that the MS. was still in the possession of Colonel Waterhouse, who very kindly at once made it over to me for examination.
"The MS. has been with me only a little more than a week, and my examination of it, of course, is not yet finished; but I have already been able to determine several important points; and as hitherto it has been impossible to aseertain anything about the character and contents of the manuseript, I will not delay communicating my information, though further examination may possibly induce me to modify it on some minor points.
"The first point that strikes one on looking through the MS. is, that it appears to be written in three, if not four, different styles. This point has been already noticed in the November aceount. But what is more, -the difference is not (as may seem at first sight) merely one of careful and slovenly writing, but one of variety of alphabet. The whole manuscript is written in what Mr. Fleet (in his Gupta Inscriptions in Volume III of the Corpus Inscriptiomum Indicarum, p. 3) distinguishes as the Northern elass of the Nágarí alphabet, whiel is eharaeterised by the peeuliar form of the $m$. Of this class, however, three varieties are observable in the MS. The test-letter of these varieties is the palatal s', which is formed in three different ways. The first of them, with a rounded top, is that eommonly used in the Northern Gupita inseriptions; the other two elosely approach the form
of the palatal s in the S'áradá alphabet of Kashmír. The first variety of writing is shown in the upper portion of Plate VI published in the November Proceedings; and the third variety in the lower portion. Of the second variety-one of great neatness-a specimen is now figured in the lower part of Plate I, which accompanies this account. The upper part of this plate gives another specimen of the first variety. The three varieties have no reference to difference of age, but merely indicate difference of locality. The second and third varieties, as shown by their approach to the S'áradá characters, were probably current in the extreme North-West of the great area of the Northern class of alphabets, while the first variety was used in the remainder of that area.
"On examining more closely the severaI leaves, I noticed that they were evidently mixed up. The leaves written in the different hands followed one another without any order. But I also noticed that many of the leaves were marked with numbers on their left hand margin. Accordingly I cut the string which passed through them and held them together, and arranged them in their proper order, as indicated by their numbers. It then was seen, that 33 leaves, forming the main portion of the MS., followed in consecutive order, and that these 33 leaves were written throughout in the first variety of the alphabet. This variety extended to the obverse of the $33 \mathrm{r} d$ leaf; but on the reverse of that leaf commenced the second variety, and went on over five leaves. The remainder of the leaves were written in the third variety.
" It further seemed that the three varieties of writing distinguished three different works, the reasons of which I shall explain presently.
"I now took up the main portion (of 33 leaves), and deciphering the first page of the first leaf, discovered that it contained an introduction, giving the name of the work and detailing its contents. The work is a compendium of medicine, is named the Návanitaka, and consists of sixteen chapters (adhyáya). That it was written* by a Buddhist, is seen from the initiatory salutation of the "Tathágatas" or Buddhas. But I have not yet succeeded in tracing anywhere the name of its author.
"The following is a transcript and translation of the introduction. It is written in Sanskrit verse (sloka). In fact the contents of the whole MS. appear to be composed in ślokas."

[^0](line 1) नमस्तथागतेम्यः।
प्राक्प्रणीनेतेर्मर्षीयां योगमुख्येस्समन्वितम् [1]
वद्ये हैं सिद्दसंकष्षं नाम्ना वे नावनीतकम् ॥[?11]
(line 2) नाना ब्याधिपरीतानां म्टांं (*स्लीषा)ः्य यदितम् [1]
कुमाराषां हितं घच्च तत्बर्ब्वमिह वद्यते ॥
समासरतबुछोनां भिषजां प्रौतिवर्द्धनम् [1]
योगबाऊल्यतस्यापि विस्तर्ं मनोनुग्य् ॥[p॥]
घघ्यां चूर्णायोगानां प्रथमं चान (line 3) वद्यते [1]
द्वितीयं घृतपानानां टतीयं बेलर्सत्रितम् [॥₹॥]
चतुर्त्यं मिश्रकं नाम नानाय्यधिचिकित्नितम् [1]
पच्यमं वस्तियोगानां रसाधनविष्रानतः [॥४॥] $\dagger$
(line 4) सप्रमं च घवागूनां हध्यमश्टमुच्चते [1]
नेनांजनानां नवमं दशमं केश़रझ्ननम् [॥य॥]
स्भभयाकल्पनामाए्यमनेकादश्रुचते [1]
द्वादशं स्यान्चेलजतोश्चिन (line5) कस्य धयोदश्रम् [॥ई॥]
कुमारमृत्यमप्यन स्याचातु [ई श $\ddagger$ ]मिघ्यते [1]
बन्याचिकितिगताल्धं च जेयं पश्नदगं बुछेः [॥णा]
सुभगाचिकित्सिताख्यद तथा षोड्यकं मतम् [1]
दूल्येते षोड (line 6) शाद्याया विज्ञेधा नावनौतकम् [॥ $\sim 11]$
नेटं द्यादपुनाय न चाभाने कथन्यन [1]
क्यकिष्ये प्रस्तवो न स्यात्क्तर्त्य दूति मे मतिः [॥ल॥]

* Conjectaral ; the leaf is here defective showing only portions of letters.
$\dagger$ There is here a difficnlty abont the sixth chapter. As the rasáyafar are a
$\ddagger$ The two aksharas द्रश are omitted in the MS.


## Translation.*

'Salutation to the Tathágatas. - I am going to write an approved compendium (of medicine), called the Návanitaka, based on the excellent system of the Maharshis as composed by them in olden times. Whatever is useful to men and women afflicted with various diseases; whatever is also useful for children, that will all be declared in this book. It will commend itself to those physicians whose minds delight in conciseness; but on account of the multiplicity of its prescriptions, it will also be welcome to those whose minds love many details.
'The first chapter will give prescriptions of powders; the second of clarified butter; the third will be concerned with oils. The fourth will be about the mixtures which are used in the treatment of various diseases. The fifth will give prescriptions of clysters, the sixth rules about elixirs. The seventh will be about gruels, the eighth about aphrodisiacs, the ninth about eyewashes, the tenth about hairdyes. The eleventh will be concerned with applications of the yellow myrobalan. $\dagger$ The twelfth will be about bitumen, the thirteenth about castor-oil. The fourtcenth will be concerned with the treatment of children; the fifteenth will deal with the treatment of barren women. Lastly the sixteenth will be about the treatment of women who have children. These sixteen chapters will constitute the Návanitaka. It should not be given to any one who has no son, nor to any one who has no brother ; nor should it be taught to any one who has no disciplc.'
"After this commences the first chapter on the chirnas or powders; it extends down to the obverse of the fourth leaf, where its end is indicated by the words नावनीतझे चूसंयोगास्तमाप्राः। प्रथमीडद्यायस्तमाप्रः $i$. e., 'in the Návanítaka the prescriptions of powders are finished; the first chapter is finished.' The following are some of the names of the powders that I have noticed: varddhamánaka, shadyádika, tikitaka, vrisha-dvádaśaka, arisht $!$, etc.
"The second chapter on clarified butter extends to the obverse of the ninth lcaf, where we find the remark द्वितौयोsद्यायः। वलाते लं प्रवच्य $/$ fि वातरोगविवर्देएम्। i.e., '(here ends) the second chapter; I shall (now) explain the Valá oil, the cure for rheumatism.' The following are some of the names of clarified butter; after each name the number of ślokas about it are given: thus amrita-práśa with 10 ślokas, kalyinalın with 4 , iiktaka with 4 , mahńtiktaka with 7 , mridvika with 3 , máyíra witlı 7 , etc.

[^1]"The third chapter on oils extends to the obverse of the thirteenth leaf, wherc it ends thus: नावनोतक सिद्दमद्धर्षे नैलप्क ल्रतौयो sद्यायः। छतः परं प्रकोर्षंकधोगान्वद्यामः, $i$. e., ' (here ends) the third chapter on oils in the approved compendium Návanítaka; in the following we shall dcelare miscellaneous prescriptions.' The following are some of the kinds of oil spoken of : valá oil in 16 ślokas, amrita oil in 25 ślokas, aśvagandhá oil, etc.
"The fourth chapter on mixtares or miscellancous prescriptions ends on the obverse of the seventeenth leaf, with the words: इति नावनौतके मिश्रको डद्याय स्वतुर्थः। घतः परं प्रवन्यामि वलवर्ण प्रसादकम् येन हंसा निवर्द्धन्ने वलं चैवेपजायने। i. e., 'here (ends) the fourth chapter in the Návanitaka, (called) Miśraka; in the sequel I am going to declare means of improving vigour and colour, by which good spirits are increased and vigour also is generated.' Of this chapter I may give the following verses as a specimen :-

## म्टप्टान्म्टष्टान्तिलान्सम्यक्त्रौरे निर्ब्वाप्य पौषयतत् ।

## वातरक्तप्रद्रे हसेस्तिलेब्बा मधुकाश्रितेः ॥ [२॥]

## श्सः प्रलेपः सघृते ग्क ग्लीचौरगीधुमैः।

वातरत्तारं जेयं प्रधानमिद्रमषषधम् ॥ [₹॥]
वातशोणितप्रश्मनं ये।गद्वयं श्लो २॥
सर्पिसेलें गु डं शुत्तं पच्चमं विश्वभेषजं।
पौतमेतद्भवेत्पय्यस्रण एं चिकशूलऩत् ॥
चिनकं पिप्पलोमूलं वचा कटुकरोचिएौ। पाठा बत्सकवौजन्च हरौतक्यो महौषधम् ॥
i. e. (1) 'Let thoroughly parched sesamum seed, well sprinkled into thickened milk, be pressed to consistency; or with the same sesamum seed mixed with liquorice a plaster may be made for rheumatism.
(2) Thickened goat's milk and (flour of) wheat with clarified butter makes an excellent oiutment. This may be considered the principal remedy against rheumatism (or gout).

The above are two prescriptions for the curing of rheumatism.
(1) Clarified butter, oil, treacle, vinegar, and, as the fifth, ginger; these, when drunk, are an instant remedy against pains in the lower part of the spine (i.e., against lumbago).
(2) Castor-oil, the root of long pepper, the vachá-root, the Melleborus niger, the Stephania Hernandifolia, and the seed of Holarrhena Antidysenterica and chebulic myrobulan are a grand remedy.'
"From the fourth chapter onwards I have not yet been able fully to trace the remaining chapters. On the 24 th and 25 th leaves I have noticed several names of gruel or yavágú, which belong to the seventh chapter.
"On the obverse of the 28th leaf I have noticed the ending of the Shh chapter, thus नावनौतके सिद्धसंकर्षे नानाचार्यमवे दृषयोगः समाप्राः। ie., ' here end the prescriptions of Aphrodisiacs (as set forth) in the approved compendium Návanítaka according to the doctrine of various Ācháryas.'
"On a subsequent leaf I have noticed portions of the eleventh chapter; and on another the beginnings of the twelfth and thirteenth chapters : thus च्चथातः शिलाजतुकल्पं व्यास्यास्यामः and छथातसिनककल्पं व्याव्य।मः। ie. 'here we shall explain the application of bitumen' and 'here we explain the application of castor-oil.'
"So far as I can judge for the present, the MS. does not seem to be complete; though I cannot say whether much or little of it is lost.
"As I explained before, this medical work ends on the obverse of a certain leaf; and on the reverse of that leaf commences what appears to be a different work written in the second variety of the alphabet At the bottom of the obverse of this leaf, marking apparently the end of the medical work, there is a line of writing, in the third variety of the alphabet. It runs thus दूत्यन स्वेते श्वेनस्याधिपत्ये श्रतस्याधिकरण साहा । This would seem to have been added to the MS. by the scribe who wrote the third portion of the MS. I do not understand its meaning.
"The beginning of the second portion of the MS., which commences on the reverse of the leaf just referred to, runs thus :-

नमो नन्दि रुद्रेख्वराय——नमो ध्याचार्येम्यः—नमो ईंश्वराय—नमो माएिभद्भाय(?) -नसस्तर्ब्द० यन्तं..**नसस्तर्व्वरेवेभ्यः शिवाय नमः षस्ठोये नमः प्रजापतये नमः रद्राय नमः नमो वेग्रवएएय नमो मरतानां नमः etc.
"The following is a specimen of the contents of this part of the manuscript. See Plate I, No. II, end of first line.

## परिहियते ते बुद्धि:.......... $\dagger$

(line 2) बारम्मस्विन्तितो यस्ते निष्फलः स भविष्यति ॥ शापटः ४ ४ ₹ ब्याधिभिम्म्मेच्यसे च्तिम्रं सुखं वा प्राफ्यसे तथा।
नात्युच्चं नातिनौचं च फलमासाद्यिष्यसि—॥द्वितौयश्पपटः॥ (line 3) [४ ₹ ४]

[^2]
## धाग्मो हग्यने घोरो येम्यस्व नव विम्रह्इः <br> 

"This may be thus translated:
' 1 , Thy intelligence is spoiled, ......... Whatever undertaking thou thinkest of, that will be fruitless.
' 2 , From diseases thou shalt quickly be delivered; and happiness thou shalt obtain; and a result thou shalt enjoy, neither very great nor very small.
' 3 , Fearful is sure to be the exertion with those, with whom thou hast a quarrel; fruitless is sure to be the business of which thou askest the causes.'
"The whole consists of similar proverbial sayings divided in sets. Thus besides the above three śápaṭa, there are three málí, five bahula, three kíṭa, four bhadrá, six śakti, six dundubhi, three vrisha, three preshyá, three vití, three karnṇa, three sajá, three kána, three chunchuna, three pañjí or páñjí, etc What these terms may mean I do not know.
"The system of enumeration, however, is curious and noteworthy. The three sápaṭa are indicated by varying the relative position of thrce numbers : 443, 434, 344. Similarly the six sakti are enumerated by the variations of $341=$ first, $134=$ second, $413=$ third, $314=$ fourth, $143=$ fifth, $431=$ sixth.
"I may here note that the numbers are indicated, through all the three portions of the MS., not by means of numeral figures, but numeral letters. Nor is the modern decimal system of notation used, but the older one which indicated the tens, hundreds, etc. by separate signs; thus 16 is expressed by the symbols for 10 and 6,25 by those for 20 and 5 , etc.
"Regarding the third portion of the MS., I can say, for the present but little. It is written in a third variety of the alphabet. It appears to contain charms or prayers, and to be of small interest. But I have not yet been able to examine it more closely. A specimen of it is given in the lower portion of the plate which accompanies the account in the November Proceedings. That specimen reads thus:
line 1, दुन्दुभौ - गर्जनौ - वर्षएौ - सफेटनौ - पतनौ - पाचनी - चारिएौ - कंपनौमद्नौ(?) .
line 2, मे - गोलायाः परिवेलाय वर्षतु द्वेो समंतेन-दूलि किसि खहा (read खाना ?) । मैनी मे प्रितराद्येषु (read धृत०?) मेतौ नेरा-

[^3]
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## मेन्रौ वासुकौना-

line 4, मfि- ट्एपारेषु .येषु* पूर्सूद्रेषु च सदा - बन्दोपनन्दो ये नागा वर्सवन्तो गशाखिनः देवा-
line 5, सुरं पि संग्राममनुभवंति मच्छर्धिका-झ्चनवतप्रेन वरुपेन मेन्नौ संचारकेन च तच्चकेन अनंतेन
line 6 , तथा वामुमुखेन च- छपराजितेन मे मेतौ मेतौ चिच्बिस्रुतेन च - महामनन्विना नित्यं तथेव च
i. e., 'may God rain all over my territory; hail to Ilikisi; my loving trust is in lhṛitaráshṭra; my loving trust is in Nairávaṇa (Airávaṇa ?) ; in Virúpáksha is my loving trust and in Krishṇa Gautama; in Maṇi, the king of Nágas is my loving trust, also in Vásuki; in Daụḍapáda, in? and in Púrṇabhadra at all times; in Nanda and Upananda, the beautiful and glorious, who most successfully maintain a contest even with the Gods and Asuras; in Anavatapta, in Varuṇa is my loving trust, and in Saṃháraka; in Tákshaka, Ananta, and further in Vásumukha; in Aparájita is my loving trust ; and my loving trus its in Chhibbasuta (?) ; and likewise in Mahámanasvin perpetually.'
"The language of the manuscript is Sanskrit; not, howerer, the ordinary standard Sanskrit, but that species of ungrammatical Sanskrit, which formerly used to be known by the name of the Gáthá dialect, and which was the language used for literary purposes by the Northern or North-Western Buddhists, outside the schools of Brahmanic learning, in the centuries immediately before and after the commencement of the Christian era. It was a species of Sanskrit which in inflexion, syntax and metrics was not bound by the ordinary rules and usages of Sanskrit Grammar. The awkwardness of the Sanskrit in the introductory verses is noticeable. The word adhyáya is uscd as being of the neuter gender, while in the standard Sanskrit it is masculine. In the second extract we have pishayet for the regular Sanskrit peshayet, and, in the colophon quoted above it, the wrong concord valam upajayante (singular subject with plural predicate). In the third extract, parihiyate stands for parihiyate and káraná is used as the accusative pluial, instead of káraṇáni. In the fourth extract, we have the irregular sandhi devo samantena for the ordinary Sanskrit devah samantena; again the initial $a$ of anavataptena and of aparijitena must be dropped or taken as absorbed in the preceding syllable, in order to make the verse (s'lolia) scan; moreover the initial two shorts of
varunena must be taken to be equivalent to one long, in order to conform the line to the ordinary rules of a sloka; so also in the first half line of the eighth śloka in the first extract, where the two shorts of subhagá must be taken as one long. Many more examples of a similar kind might be quoted.
"Now as to the age of the MS., I believe it to be very old and written not later than the end of the 5 th century A. D. The style of writing is exactly like that which we meet with in the early Gupta inscriptions, between 450 and 550 A . D. These may best be seen in Mr. Fleet's volume III of the Corpus Inscriptionum Indicarum.
"One of the test letters, for the determination of age, of the Nágarí alphabet-aud the most important one in the present case-is the akshara य ya. Its original form was $\boldsymbol{J}$; this changed to $\mathbb{N}$ or $\boldsymbol{N}$; next the left hand loop-line was extended to the point of junction of the perpendicular stroke, $\mathcal{Y}$. The object of this, of course, was to permit of the letter being written with one continuous movement of the hand. The next step was to dissolve the point of junction, N, a natural consequence of quick writing. From this point, the modern form was quickly reached. The whole course of this development is clearly traceable during the period (about 400 to 600 A . D.) of the early Gupta alphabet. The initial forms $J$ and $\mathcal{J}$ we find still used throughout in the Allahabad pillar inscription of Samudra Gupta (about 400 A. D., see Fleet, ibid., p. 6), the Udayagiri Cave inscription of Chandra Gupta II (c. 410 A. D., ibid., p. 35), the Bilsad pillar inscription of Kumára Gupta (415 A. D., ibid., p. 45), the Mathurá image inscription of Skanda Gupta (454 A. D., ibid., p. 263), the Blitari pillar inscriptiou of Skanda Gupta (c. 460 A. D., ibid., p. 53), the Kahaum pillar inscription of Skanda Gupta (460 A. D., ibid., p. 67), etc. The final form $\mathcal{V}$ is already used throughout the Bodhgaya inscription of Mahánáman (588 A. D., ibid., p. 274), and in the Asphad stone inscription of Adityasena (c. 650; ibid., p. 202). The intermediate form $G$ is only found in the Indor copper plate inscription of Skanda Gupta, of 465 A. D. (ibid., p. 68), the Mandasor stone inscription of Kumára Gupta, of 473 A. D. (ibid., p. 79), the Majhgawan copperplate inscription of Hastin, of 510 A. D. (ibid., p. 106), and the Jaunpur stone inscription of I'śvaravarman of about 520 A. D. (ibid., p. 228). With regard to this intermediate form it is particularly to be noticed, that it occurs side by side with the older forms $\mathcal{J}$ or $\mathcal{J}$, and that it is exclusively used with the vowels $e$ and o. Thus we have it in the Indore plate in yojyam (line 7) ; again in the Mandasor inscription in yo and priyo (line 14); again in the Majhgawan plate in chhreyo (line 14), yo (line 16), ye (line 18); again
in the Jaunpur inscription in anvavaye (line 2). Now precisely the same practice is noticeable in the main portion of the MS., written in the first variety of the alphabet. The older form is used throughout, except in connection with the vowels $e$ and $o$, when the intermediate form is used optionally with the older form. Thus in Plate I, No. I, the intermediate form occurs twice in the 2nd line in yoga, and in the 9 th line in kalpayet. Again in the upper portion of Plate VI of the November Proceedings the intermediate form occurs in the middle of the third line in lepayet, and in the beginning of the 6th line in miśrayet; also twice in the beginning of the llth line in prayojayet. On the other hand we have the older form in Plate I, No. I, 10th line, chúrnnayet, and in Plate VI of the November Proceedings, 2nd line, kalpayet; and both the older and intermediate forms we have in the same Plate VI, middle of 6 th line, prayojayet. Once I have noticed the intermediate form with the analogous case of the vowel ai, viz., in Plate VI, middle of 4th line, jivaniyais $=c h a$. The inscriptions show that this intermediate form was peculiar to a particular period, the limits of which may be roughly put down as between 470 and 530 A . D. It is not found in any inscription either before or after these dates. And as inscriptions longer conserve archaic forms of writing than manuscripts, that fact further proves that the date of writing the MS. must fall somewhere within that period, that is, about $500 \mathrm{~A} . \mathrm{D}$. I have not noticed the intermediate form of $y a$ either in the second or in the third portion of the MS. In both these portions, the older forms are used exclusively; and as these portions were certainly written after the first portion, they confirm the conclusion, that the writing of the whole MS. cannot be placed later than 500 A . D.
"As tending to confirm this conclusion, it may be further noted that throughout the MS., wherever there is any occasion to use a number, whether in the body of the work in numbering ślokas, or on the margin of the leaves in numbering the latter, the ancient practice of employing numeral letters is exclusively followed, while numeral figures are never used. What is more,-there is no trace of the knowledge of the modern system of notation with the help of the zero and the value of position; every numeral sign has its own fixed value, independent of the position it may occupy in a series, there being separate signs for the units, the tens, hundreds, etc. 'l'hus 'twenty-five' is not expressed by the signs for 'two' and 'five' (i. e. 25), placed in a certain order, which order imparts the value of 'twenty' to the sign for 'two;' but it is expressed by two special signs, one for 'twenty,' the other for 'five.' That the 'value of position' was not known to the writer of the second part of the MS., seems
to be clearly shown by his curious system of numbering the səveral ślokas of a set. Thus the three ślokas of the śápata set are numbered 443,434 and 344 , which does not mean 'four hundred and forty-three,' 'four hundred and thirty-four,' and 'three hundred and forty-four.' This would have no meaning. The position of the figures in the three series imparts no numerical value; 4 means 'four,' and 3 means 'three,' in whatever position they may be. The three series can only be read 'four four three,' 'four three four' and 'three four four;' and the variation in the position of the three unit figures only serves to enumerate three different ślokas. Now the discoveries of the zero and of the value of position may, with much probability, be placed at some time within the sixth century A. D.; and thus the writing of our MS., must be referred to a time, not later than the beginning of that century, or about 500 A . D.
"This, I believe, makes our MS. the oldest Indian written book that is known to exist. There is indeed another MS. which is nearly as old; that is, the so-called Horiuzi MS., published in the Anecdota Oxoniensia, Vol. III. But if I understand the case rightly, that MS. consists only of two leaves, and is preserved, not in India, but in Japan. Professor Bühler, who has described it, assigns to it the date of about 550 A. D. The MSS., next in age, are two Nepalese of the Cambridge collection, viz., Add. 1049 and 1702, described in Mr. Bendall's Catalogue, pp. xxxix ff. ; and the so-called Bakhshálí MS., described by myself in the Indian Antiquary, Vol. XVII, pp. 33ff. It will be observed that both Nepalese MSS. exhibit throughout the modern form of ya (though in slightly differing variations) as it became established at the end of the sixth century A. D. As the Bodhgaya inscription of Mahánáman, of 588 A. D., shows throughout the same form of $y a$, it appears to me not impossible that the MS., Add. 1049, dated Samvat 252, which is referred by Mr. Bendall to 857 A. D., may really be placed in 571 A. D. being dated in terms of the Gupta era. Neither the old, nor the intermediate forms of ya occur in the Nepalese MSS., while in our MS. these are the only forms that are employed, the modern form being, conspicuoas by its entire absence.
"I may note one or two other peculiarities. In the first place, the oldest form of the long vowel $\dot{a}$ is a small horizontal stioke attached to the top of the right side of a consonant. A peculiar modification of this form is the attachment of the stroke to the middle of the right side This form has, so far as I am aware, hitherto only been noticed in the Allahabad stone pillar inscription of Samudra Gupta, which dates from about 400 A. D., see Fleet, Corpus Insc. Ind. Vol. III., p. 4. Compare, e. g., the akshara गा of गाबं in line 31 of that inscription with the गr of

नागा in line 4 and of संमाम in line 5 of the lower part of Plate VI in the November Proceedings. I have noticed this peculiar form of $a$ only in the that portion of the MS., which is written in the third variety of the alphabet.
"In the second place a peculiarity of the style of writing of the period of the early Gupta inscriptions is the practice of appending a final consonant, i.e., a consonant without an inherent vowel, below the line in very small size. In fact this practice is the early substitute of the modern viráma. Thus compare the very last word पिवेतृ in the bottom line, and the word चोरकम् just three lines above it, in the upper portion of the plate in the November Proceedings, again ₹च्वितम् and नावनौनकम् in line 1, चुष्षयेत् in line 10 of Plate I, No. I, with the word यथावत् in line 11 of the Bilsad pillar inscription of Kumára Gupta, of 415 A. D. (Fleet, p. 44), or तनोयम् at the end of line 11 of the Kahaum stone pillar inscription of Skanda Gupta, of 460 A. D. (ibid., p. 67), or योगस् at the end of line 9 of the Indore copperplate of Skanda Gupta, of 465 A. D. (ibid., p. 70), or मुल्यम् in line 6 of the Gwaliyor inscription of Mihirakula, of about 515 A. D. (ibid., p. 162), or सिद्बम् in line 1 , झाध्वरान् in 1.13 , भूतयेपात् in 1.17 of the Mandasor inscription of Yaśodharman, of 533 A. D. (ibid., p. 152), or गम् in line 1 of the Jaunpur inscription of I'śvaravarman, of about 520 A. D. (ibid., p. 229). This practice of spelling I have observed throughout every part of the manuscript."
[PS. A fuller account of the MS., and specially of the reasons of dating it so early, I hope shortly to publish.]






No. II.





LEAVES FROM A BIRCH-BARK MANUSCRIPT FOUND IN AN UNDERGROUND ANCIENT CITY NEAR KUCHAR, EASTHRN TURKESTAN








[^0]:    * The form of salatation varies according to the creed of the writer of a MS The present salatation is, therefore, not strictly evidence as to the creed of the anthor of the work, bat only as to that of the scribe of the MS.

[^1]:    * The translation is tentative. Some of the medical terms are not known to me, nor to those Kavirájs whom I consulted.
    $\dagger$ Abhayá, I am told by a Kaviráj, is a synonym of haritnkí. See also Glossary to the Bibliotheca Indica edition of the Aśva Vaidyaka.

[^2]:    * The dots signify illegible aksharas.
    $\dagger$ The other half of the sloka is broken away and lost.

[^3]:    * The dots signify illegible aksharas.

